

August 8, 2008

Lynn Kunzler
State of Utah Division of Oil, Gas, and Mining
1594 W North Temple, Suite 1210
Box 145801
Salt Lake City, UT 844114-5801

Dear Lynn,

Interpace would like to amend the mining plan for #M/049/006 the Clinton Clay Pit. The current operator for this mine is Interpace Industries, Inc.

As requested by Beth Erickson on April 30,2008, Interpace was to review the written narrative and rewrite/update the information so that it conforms to new NOI outline.

No new acreage will be affected. There are no significant changes to the mining plan.

Due to reclamation that has taken place in the past years, some changes have been made to the estimate for reclamation. A detailed listing can be found in Appendix 1 pages 23 and 24

Attached is a MR-REV-att form detailing the proposed changes for #M/049/006, a copy of the mine plan with the original text in black, the new text in blue and the text to be removed in red strikethrough. Appendix 2 and 3 have not been included because they are not being changed.

If there are any questions please call me at any time.

Sincerely,

Todd Seiverling

Asst. Plant Manager

AUG 1 1 2008
DIV. OF OIL, GAS & MINING



Todd Seiverling Assistant Plant Manager

Phone: (801) 782-7933 Cell: (801) 540-9725 Fax: (801) 781-2890 736 Email: todds@interpacebrick.com 736 West Harrisville Road om Ogden, UT 84404 Form MR-REV-att (DOGM - Revise/Amend Change Form) (Revised September 14, 2005)

Application for Mineral Mine Plan Revision or Amendment

Mine :	Name: Clin	rpace Industries,	File Number: M/049 /000
Provide a company and pages, or company and	detailed listing of all drawings that are to other information as tion and drawing n	changes to the mining and reclamation plus be added, replaced, or removed from the needed to specifically locate, identify and umbers as part of the description.	an that will be required as a result of this change. Individually list all plan. Include changes of the table of contents, section of the plan, revise or amend the existing Mining and Reclamation Plan. Include THE MINING AND RECLAMATION PLAN
			F MAP, TEXT, OR MATERIALS TO BE CHANGED
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urn to:			
	Division of Oil, 0 1594 West Nort Box 145801	Natural Resources Gas and Mining h Temple, Suite 1210 Utah 84114-5801	FOR DOGM USE ONL) File #: M/ / Approved: Bond Adjustment: from (\$) to \$

Instructions - Amend or Revise Mining Plan

AUG 1 1 2008 Page 3 of 3

DIV. OF OIL, GAS & MINING

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State Of Utah Department of Natural Resources Division of Oil, Gas, and Mining

1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

Telephone: (801)538-5291

Fax:(801)395-3940

Notice of Intention to Amend Mining Operations

Interpace Industries, Inc. would like to amend an existing mine currently being operated under permit #M/049/006.

I. RULE R647-4-104- OPERATOR, SURFACE, AND MINERAL OWNERS

1. Name of Applicant or Company:

Interpace Industries, Inc. a Washington Corporation

2. Permanent address:

736 W Harrisville Rd. Ogden, UT 84404 Phone (801)782-7933 Fax (801)782-5047

3. Company Representative:

Aaron Hancock

Director of Mining and Transportation Plant Manager 736 W Harrisville Rd Ogden UT 84404 Phone (801)782-7933 Fax (801)782-5047

4. Mine Name: Clinton Clay Pit

- 5. Previously Assigned File Number: M/049/006
- 6. Location of Operations: The NE ¼ of SE ¼ & SE ¼ of NE ¼ of section 8, and the S ½ of NW ¼ & N ½ of SW ¼ & N ½ of SE ¼ & N ½ of SE ¼ of SE ¼ of section 9 T5S R1W Utah County
- 7. Ownership of the land surface:

All but lot 8 Private fee Interpace Industries, Inc. 736 W Harrisville Rd. Ogden, UT 84404

Lot 8 Public Domain (BLM) 8. Owner of record of the minerals to be mined:

All but lot 8 Private fee Interpace Industries, Inc. 736 W Harrisville Rd. Ogden, UT 84404

Lot 8 Public Domain (BLM)

9. BLM Casefile Serial Number:

Camp Williams Community Pit U-77794

II. RULE R647-4-105 MAPS, DRAWINGS & PHOTOGRAPHS

105.1- Base Map

Base Map Checklist

Check √ (a 1.11) Property Boundaries of surface ownership of all lands	
	BM-1
	BM-1
√ (1.13) Proposed route of access to the mining operations from nearest publicly maintained highway. The map scale will be appropriate to show access.	BM-1
(e 1.14) Known areas which have been previously impacted by mining or exploration activities within the proposed land affected	BM-2
(d)Areas proposed to be disturbed or reclaimed over the life of the project or other suitable time period	
105.2- Surface Facilities Map	
Surface Facilities Map Checklist	
Check (a 2.11) Proposed surface facilities, including but not limited to: buildings, stationary mining/processing equipment, roads,	Map ID
utilities, power lines, proposed drainage control structures, and the location of topsoil storage areas, overburden/waste dumps, tailings or processed waste facilities, disposal areas	SF-1
for overburden, solid and liquid wastes and wastewater discharge treatment and containment facilities;	
number of acres proposed to be affected disturbed by mining operations; ———————————————————————————————————	SF-1

105.3 - Additional Maps

Check	Map ID
N/A (3.11) Regraded Slopes to be left at steeper than 2h:1v.	
$\sqrt{}$ (3.12) Structures to be left as part of the post-mining land use	RT-2
N/A (3.13) Water impounding structures.	
(3.14) Surface areas which will be disturbed by the operator but will not be reclaimed.	RT-2
N/A (3.15) Sediment ponds, diversion channels, culvert size and locations, and other hydrologic designs and features to be incorporated into the mining and reclamation plan.	
$\sqrt{}$ (3.16) Baseline information maps and drawings.	BM-2
(3.17) A reclamation activities and treatment map to identify the location and the extent of the reclamation work to be accomplished by the operator upon cessation of mining operations.	RT-1
<u>N/A</u> (3.18) Other maps.	
Reclamation Treatments Map Checklist Check	Map ID
reclamation treatments will be applied. Areas would include:	
buildings, stationary mining/processing equipment, roads, utilities, proposed drainage improvements or reconstruction, and sediment control structures, topsoil storage areas, waste dumps, tailings or processes waste facilities, disposal areas for overburden, solid and liquid wastes, ponds, wastewater discharge, treatment and containment facilities. Reclamation treatments may include ripping, regrading, replacing soil, fertilizing, mulching, broadcast seeding, drill	RT-2
seeding, and hydro seeding;	
(b) A border clearly outlining the extent of the area to be reclaimed after mining, the number of acres disturbed, and the number of acres proposed for reclamation;	RT-2
N/A (c) Areas disturbed by this operation which are included in a request for a variance from the reclamation standards;	
N/A (d) Highwalls which are proposed to remain steeper than 45 degrees and slopes which are to proposed to remain steeper than 3horizantal: 1 vertical	

III. RULE R647-4-10-6 OPERATION PLAN

106.1 - Minerals to be mined:

Fireclay

106.2 - Type of operations conducted:

The area proposed for disturbance is divided into two areas: the west area and the east area. The discussion of operations in these two areas will be discussed separately. No processing will take place on site, nor will any deleterious or acid forming materials be left on site.

The west area. This is an area of historical mining in which new reserves have recently been discovered and deemed to be economically to mineable. The area consists of four old clay cuts that were mined out years ago. The new mining area will be the "peninsula" between these old cuts. The operation will be to use a track hoe and mining trucks to remove the clay and waste and transport them to the stockpile pad and waste dump respectively. The equipment will create increasingly lower steps until the clay is no longer usable. This will be to a depth of about 50' below surface level, or at about the same elevation as the floor of the old pits. The clay will be hauled from the stockpile by bellydump trucks.

We would like to permit a 70 acre parcel, but only bond for disturbance an area of 25.15 acres. Our plan is to begin mining on the east end of this 70 acres and move in mining advances towards the west, while reclaiming behind the advance as the area is mined out. Amendments to this plan will be filed for each advance.

The East Area: Mining operations have ceased in this area with reclamation starting. Utilization of the stockpile pad will continue. This has been area of recent clay mining, but hasnow been mainly turned into a sand & gravel pit. The sand and gravel overlay clay deposits that were being followed until the clay became too deep under the aggregate. We will use a track hoe and mining trucks to remove clay and waste and haul them to the stockpile pad and waste dumps, respectively. Waste will be deposited in areas which have been deemed mined out to bring these old outs to grade. We do not anticipate to mine clay in this area for more than five more years. The gravel operation will consist of using a tracked dozer to push the aggregate materials downhill to a point where a loader will transport the material to a screening/crushing operation where the material will be processed and sold as various materials, eg. e-fill, gravel, road base, etc.... The original purpose of the gravel operation was to remove the aggregate materials from on top of clay deposits, but since more economical deposits have been discovered to the west, the purpose of the crushing operation is to bring the highwalls to the north and south of the old Lehi cut to acceptable slopes for reclamation while making a saleable product, All money generated from royalties from the sand and gravel will be used for reclamation purposes.

106.3- Estimated Acreage (see maps S F-1& SF-2)

Total Disturbed area:

The west area:		
Permitted:		70 77 acres
Disturbed:		
1. Areas of actual mining	2:	10.0 acres
2. Overburden/waste dun		4.0 acres
3. Ore and product stock	•	2.75 acres
4. Roads:		
Upper	2.05 acres	
Connecting	0.85 acres	
Lower	1.75 acres	
Total		4.65 acres
5. Operations area and ed	nuipment siting:	n/a
6. Topsoil pad:	1	1.0 acres
7. Previously disturbed &	unreclaimed:	2.75 acres
8. Other		12.5 acres
Total distu	rbed area	25.15 acres
		32.15 acres
The east area:		
Permitted & Disturbed:		
1. Areas of clay mining:		4.65 0 acres
2. Areas of gravel mining	g:	16.0 0 acres
3. Overburden/waste dun	nps:	13.0 acres
4. Ore and product stock	•	11.0 2.0 acres
5. Roads:		2.15 acres
6. Operations area and ed	quipment siting:	0.6 0 acres
7. Tailings (sandy loam)		5.0 acres
8. Other:	•	27.6 47.1 acres
9. Previously reclaimed		3.75 acres
Total disturbed are	a	80.0 73 acres
Permitted area:		150 acres
ID' 4 I I	*	40545

105.15 acres

106.4 - Nature of material including estimated tonnage

The west area:

This area is made up of vertical sequential veins of clay/shales, limestones, and quartzites.

1.	Thickness of overburden:	5 feet
2.	Thickness of mineral deposit:	60 40 feet
3.	Estimated annual volume of overburden:	500 cy
4.	Estimated annual volume of waste:	100,000 cy
5.	Estimated annual volume of ore mined:	20,000 cy

6. Overburden/waste description:

The overburden is the topmost 5 feet of material which is comprised of clays, limestones, and quartzites. The clays are unusable since the top 5 feet has deposits of CaCO:. The waste is comprised of unusable clays, shales, limestones, and quartzites.

The east area:

This area is made up of vertical sequential veins of clay/shales, limestones, and quartzites overlain by horizontal deposit of silts, sands, and gravels ranging in size from sand to large cobbles to boulders.

1.	Thickness of overburden:	0 feet
2.	Thickness of mineral deposit:	100 feet
3.	Estimated annual volume of overburden:	0 cy
4.	Estimated annual volume of waste:	135,000 0 cy
5.	Estimated annual volume of ore mined:	350,000 0 cy

6. Overburden/waste description:

This area has already had nearly all of the overburden removed. Waste from clay mining is composed of clays, limestones, and quartzites. Waste generated from the crushing operation is comprised of sandy/silty material too fine to be included in any of the saleable aggregate materials, but has been certified as a sandy loam. This will be stockpiled for future use as topsoil in reclamation and for fill.

106.5 - Existing soil types, location of plant growth material

The west area. The soil in this area is comprised of decomposed clays and shales with a fair amount of sandy, silty material mixed in. There is also a large percentage of large rocks (limestones and quartzites) intermixed into the soil.

- a. Depth of soil material: along the ridge on which the mine is situated the soil depth is only 6" to 8".
 - a 1. The volume available for stockpiling is about 3,000 cy.
 - a 2. The texture of the soil is clayey, dry, and crumbly with some sand.
 - a3. The pH is generally 8.0 to 8.5.
- b. A sample of the soil will be sent out for analysis, and results forwarded to the Division.

The east area. The little soil left in this area is composed of sandy, silty material with a large percentage of small to large rocks intermixed into the soil.

- a. Depth of soil material: in the area in which any soil material is left in place the soil depth is about 12".
 - a1. The volume available for stockpiling is about 0 cy.
 - a2. The texture of the soil is rubbley and sandy.
 - a3. The pH is generally 8.0 to 8.5.
- b. A sample of this soil will <u>not</u> be sent out for analysis.

106.6- Plan for protecting and redepositing existing soils

The west area.

Thickness of soil material: ~6-8 inches
Area from which the soil can be stockpiled: 3.0 acres
Volume of soil to be stockpiled: 3,000 cy

The west mining area is comprised of old mining cuts and stockpile pads. The area proposed for mining is a peninsula between the old east cut and south cut. When the east, south, and middle cuts and the west stockpile were made no effort was taken to stockpile and store topsoil removed from these areas. This is the reason there is an area of only 3 acres from which topsoil can be stockpiled. Although only a small amount of native topsoil will be available for reclamation there will be an ample supply of sandy loam that can be used for topsoil.

After the soil is stockpiled the stockpile will be seeded with a quick growing seed mixture appropriate for the soil and climate to protect the soil in the stockpile from eroding. The stockpiles will be fairly low and long to --, maximize surface area versus volume.

The east area.

Thickness of soil material: ~12 inches
Area from which the soil can be stockpiled: 1.0 0 acres

Volume of soil to be stockpiled: 0 cy

Since the nature of the little remaining topsoil is this area is very, very rubbly, and it would be impossible to replace this rocky material on reclaimed areas while keeping the plant growth medium material at the surface. No topsoil will be stockpiled in this area. Instead, the sandy loam from the crushing operation will be used as "topsoil" for this area

106.7 - Vegetation Survey

Dr. Alan Stevens from Willow Creek Seed Co. has been was contracted to perform a vegetation survey of the mining area. He anticipates performing the survey in March. The results of this survey will be forwarded to the division. See Appendix 2

106.8 - Depth to groundwater, overburden material, and geologic setting

The depth to groundwater in this area is unknown. No wells have been drilled.

Geology of the Formation.

The west area: This an area of nearly vertical to vertical veins of varying layers of clay/shale, limestones, and quartzites. These deposits originate from the Mississippian period during the Carboniferous. They were deposited in an oceanic environment during various periods of intrusion and regression of the sea. When the Traverse Mountains, on which Camp Williams sits, intruded into the area these flat lying beds were pushed southward causing severe folding, ultimately leaving the beds nearly vertical in this area. Since these deposits are at the surface, the only overburden will be the top 5 feet or so of material which has been degraded by being so close to the surface.

The east area: This an area of nearly vertical to vertical veins of varying layers of clay/shale, limestones, and quartzites. These deposits originate from the Mississippian period during the Carboniferous. They were deposited in an oceanic environment during various periods of intrusion and regression of the sea. When the Traverse Mountains, on which Camp Williams sits, intruded into the area these flat lying beds were pushed southward causing severe folding, ultimately leaving the beds nearly vertical in this area. At some time, probably during the Tertiary Period, glaciers in the Oquirrh Mountains to the west began to melt causing a large influx of water carrying debris from the Oquirrh Mountains into this area. The debris was deposited on the south and east sides of the hill in this area leaving a large deposit of granitic alluvium. This alluvium of aggregate materials could be considered as overburden to the clay, but is being processed into different aggregate materials and sold. There is no overburden on top of the sand and gravel.

106.9- Location and size of ore and waste stockpiles, tailings, and treatment ponds and Discharges

The west area: See map # SF-1 The clay stockpile is to the west of the mining area, and has been permitted for use since at least 1987. The size of this stockpile (2.75 acres) has been expanded slightly by about 0.5 acres. The waste piles (waste dump DW1, 4.0 acres) from this mining area will be against the north wall of the old East Cut. The East Cut is an old pre-law mining cut that was left in poor condition. The waste will be pushed up against the north wall to about the same elevation as the original ground level. The waste pile will then be sloped to the south down to the floor of the pit and left at a 3:1 slope. There will be no tailings created, nor treatment ponds nor discharges.

The east area: See map # SF-1 The location of the gravel stockpiles will be to the east and south of the crusher. Any waste generated from clay mining will be deposited back into areas which have been mined out from previous minings (dumps B & C), until grade has been reached. It is anticipated that dump C will be filled and reclaimed by the spring of 2004. There is a large existing waste pile (waste dump A E4) which will not be added to, and will be pushed northward. into the area of waste dump B beginning the summer of 2005.

106.10-Amount of material extracted, moved or proposed to be moved

The West Area:

Mineral deposit	100,000 cy
Topsoil	3,000cy
Subsoil	0 cy
Overburden	0 cy
Waste rock	200,000cy
Core hole material	0 cy

IV RULE R647-4-107 OPERATON PRACTICES

107.3 - Erosion Control & Sediment Control

The west area: (See map BM-1) Small berms will be constructed along the downhill side of both the upper and lower east west roads. These small berms will act as a barrier to slow the flow of any runoff to prevent any channeling as the water passes southward over the dryfarm to the south. The only runoff that will reach the east-west roads will be from the roads themselves. Any water from the stockpile pad will remain on the stockpile pad as it slopes inward, and has a 2' berm erected along the west, east, and south sides. All of the areas of mining and waste dumps are inward sloping. The previously disturbed and unreclaimed area in the west has no exit for water at all. The mining area and waste dump area will channel water to the bottom of the old south and east cuts. This water will be detained by berms created at the east end of these cuts. This water will then be absorbed into the ground.

The east area: (See map BM-1) In this area 60 acres of the area will flow and drain into the old Lehi cut or the depression created by the gravel operation. This water will be unable to escape the property. A 4' berm will be constructed along the south side of the gravel stockpile pad area. The purpose of this berm is to detain the water and allow the silts and sands to precipitate out before the water either seeps into the sandy surface, or flows to the east end of the berm and into the drainage to the south. The berm will also prevent channeling of the south slope of the stockpile area.

IV RULE R647-4-108 HOLE PLUGGING REQUIREMENTS

No drill holes are planned. If drilling takes place, the tailings will be placed back into the hole as per R647-4-108-1.11.

V RULE R647-4-109 IMPACT ASSESSMENT

109. I - Impacts to surface & groundwater systems.

No impact on ground water or surface water is anticipated. We will not impinge on groundwater as the mine is not anticipated to be mined to that depth.

The west area: The mine in the west area is located on the top of a small hill, and surrounded by a dry wheat farm. The dry farm is used to provide stability to the topsoil, and reduce erosion. There are no streams or waterways that traverse the mining area. There is an ephemeral stream which runs west to east more than 500 feet to the south of the mining area. This stream was impounded at some time in the past by a dike (located on map BM-2) which provided access to the property to the south. No one knows who constructed the dam or when. The dam has, in effect, acted to stop the flow in this stream. Interpace will construct two foot high berms along the south side of both the upper and lower roads to slow any runoff from the hill in the mining area. These berms will slow the velocity of any runoff This will prevent any channeling by the runoff when the water passes over the dry farmland to the south of the mining area. Also, most of the south side of the hill will remain vegetated and undisturbed: this will also act as an erosion control method.

At the east, downhill end of the area to be mined (between the old east cut and south cut) there will be a large berm constructed to control any waterflow downhill in the mining area. This will control any sediment and crosion from the actual mining area.

The east area: There is a small ephemeral stream which runs west to east on the south side of the mining area. This is a continuation of the stream from the west which was dammed by the dike mentioned above. The stream channel is grassed and shows no signs of periodic water erosion or even water flow. A 4 foot berm will be constructed on the south side of the stockpile pad area to prevent any erosion and sediment from reaching this ephemeral stream. The berm will slow down the flow of water and allow silts and sands to settle out before

the water reaches the ephemeral streambed.

109.2 - Wildlife habitat and endangered species

The impact this mine will have on wildlife and wildlife habitat is minimal. The only large wildlife sighted in this area are mule deer and coyotes. Any Large wildlife seems to come down from the hills from the north and west out of Camp Williams. A few animals are sighted during winter in the mining area, especially in the old mining cuts. As development to the east and south of the mining area moves closer, it appears that the wildlife is transiting this area less and less.

No threatened or endangered species reside in this area. so no special measures need be taken to minimize the impact on them. As these areas are reclaimed, the grasses used will help provide feed for the large animals. The operation will be conducted so as to minimize the impact on all species in the area.

109.3 - Existing soil & and plant resources

The west area: The impact on existing soil and plant resources in the west area are those created by the stripping and stockpiling of topsoil. The process terminates the surface vegetation growth and renders much of the microscopic soil biota impaired. To offset this problem as much as possible, the stockpiles will be fairly low and long to maximize surface area versus volume and they will be vegetated with a sturdy and substantial plant community composed of a mix of vegetation designed for this soil and environment. Although the topsoil piles won't be farmed as such the presence of active plant growth on the piles will keep the topsoil alive until it's used in reclamation.

No riparian or wetlands exist within the revised permit area, so none will be affected by the expanded mining operation. No threatened or endangered plant species exist within the expanded mining permit area.

The east area: The east area has already been stripped of almost all topsoil and plants. It is not anticipated that any undisturbed areas will be disturbed; therefore, there is no plan for stockpiling any original topsoil in this area. However, the sandy loam, a resultant byproduct of the crushing operation, is an excellent plant growth medium, although with little organic material.

109.4 - Slope stability, erosion control, air quality, and public health and safety

This is private ground with no public access. All appropriate measures are taken to ensure that the public cannot enter the property. A gate has been placed across the road, and large boulders set for a distance to the sides of the gate to keep vehicles from running around the gate. Large boulders have been placed in the roadway leading to Interstate Brick's clay mines to the south and the road to the west has been cut off with a berm. The gully that runs west to east to the south of the mining area acts as a barrier to entrance to the property. The National Guard does have an interest in transiting across the property to enter Camp Williams to the west of the mining area. The berm to the west is removed while they are using the road, but when they are done the

berm is replaced. No trespassing signs are very abundant in the area to attempt to keep the public out. Since these measures have been taken it appears that there is much less illegal entry into the mining area.

The west area: The area to be mined, stands at a slope of 10° on natural slopes and is vegetated at that slope. The slopes we create will be steeper than that at approximately an 18° angle, which is a 3 horizontal: 1 vertical so that topsoil can be placed on them prior to revegetating. The old mining areas have highwalls which lay nearly vertical. As the waste materials are pushed against these highwalls, the waste will be graded to a 3:1 slope also. Care will be taken to leave these slopes very rough to prevent slope erosion. In areas where the surface is composed of in-place material the east-west orientation of the veins of limestone and quartzites and shales will prevent any slope erosion in a north-south direction but these also will be left rough. As waste is pushed against the highwall on the north it will be graded to the correct slope. Much of the waste that will go into the waste dump will be rock and shale. These will help bind the slope to prevent erosion, but the slope will be left rough, and small "berms" will be created by ripping with a tracked dozer to a depth of at lest 18" across the contour to help prevent slope erosion. No air quality permits should be necessary since this material is not subject to wind erosion. During mining a water truck will be available to wet the roads to keep any dust from becoming airborne.

The high-walls in the active portion of the pit will be left at a slope of 45°, from year to year between mining cycles as the mining progresses. Given the ability of this material to stand unaided at this angle in a highwall this will not be a problem. Any slope that is not part of the active mining will be graded down to a 18° to 20° slope to make it feasible to place topsoil or sandy loam as a first step in reclamation.

During reclamation, after the topsoil is placed on the slopes, the entire area will be ripped with a dozer to a depth of at least 18 inches and an interval of 3 feet on contour to assure the stability of the site and to improve water retention. The area will be left very rough also.

The east area: This area has already been disturbed. Most of the area of gravel mining lies at aslope of about 10°. In the area above the clay pit the slope lies at an angle of about 22°. During mining and reclamation slopes have been no slope will be left no steeper than 18° or 3:1. The slope above the clay pit will also be has been brought to the same slope. As the higher portions of the area are removed of aggregate materials they will be left at the appropriate slope mentioned above. The nature of the aggregate material lends itself to slope stability. As about 100' horizontal is brought to the appropriate grade it will be reclaimed, thereby reducing slope wash downward from the top portions of the mine, and to reduce the amount of money spent at any one time on reclamation. During reclamation, the entire area will be ripped with a dozer to a depth of at least 18 inches and an interval of 3 feet on contour to assure the stability of the site and to improve water retention. The area will be left very rough also.

The third party contractor who has leased this area from Interpace and operates the crushing plant has obtained an air quality permit, and complies with all clean air regulations. A water truck is on hand at all times to keep dust to a minimum.

109.5- Actions to mitigate any impacts

5.1. The west area: The mine in the west area is located on the top of a small hill, and surrounded by a dry wheat farm. The dry farm is used to provide stability to the topsoil, and reduce erosion. There are no streams or waterways that traverse the mining area. There is an ephemeral stream which runs west to east more than 500 feet to the south of the mining area. This stream was impounded at some time in the past by a dike which provided access to the property to the south. No one knows who constructed the dam or when. The dam has, in effect, acted to stop the flow in this stream. Interpace will construct two foot high berms along the south side of both the upper and lower roads to slow any runoff from the hill in the mining area. These berms will slow the velocity of any runoff. This will prevent any channeling by the runoff when the water passes over the dry farmland to the south of the mining area. Also, most of the south side of the hill will remain vegetated and undisturbed; this will also act as an erosion control method.

At the east, downhill end of the area to be mined (between the old east cut and south cut) there will be a large berm constructed to control any waterflow downhill in the mining area. This will control any sediment and erosion from the actual mining area.

The east area: There is a small ephemeral stream which runs west to east on the south side of the mining area. This is a continuation of the stream from the west which was dammed by the dike mentioned above. The stream channel is grassed and shows no signs of periodic water erosion or even water flow. A 4 foot berm will be constructed on the south side of the stockpile pad area to prevent any erosion and sediment from reaching this ephemeral stream. The berm will slow down the flow of water and allow silts and sands to settle out before the water reaches the ephemeral streambed.

5.2. The only large wildlife sighted in this area have been mule deer and coyotes. Any Large wildlife seems to come down from the hills from the north and west out of Camp Williams. A few animals are sighted during winter in the mining area, especially in the old mining cuts. As these areas are reclaimed, the grasses used will help provide feed for the large animals. The operation will be conducted so as to minimize the impact on all species in the area. As development to the east and south of the mining area moves closer, it appears that the wildlife is transiting this area less and less.

5.3. West area: Stripping and stockpiling topsoil terminates the surface vegetation growth and renders much of the microscopic soil biota impaired. To offset this problem as much as possible, the stockpiles will be fairly low and long to maximize surface area versus volume and they will be vegetated with a sturdy and substantial plant community composed of a mix of vegetation designed for this soil and environment. Although the topsoil piles won't be farmed as such the presence of active plant growth on the piles will keep the topsoil alive until it's used in reclamation.

The east area: There is no plan for stockpiling any original topsoil in this area. However, the sandy loam, a resultant byproduct of the crushing operation, is an excellent plant growth medium, although with little organic material, can be spread over the ground to facilitate plant growth

5.4. Health and safety.

All appropriate measures are taken to ensure that the public cannot enter the property. A gate has been placed across the road, and large boulders set for a distance to the sides of the gate to keep vehicles from running around the gate. Large boulders have been placed in the roadway leading to Interstate Brick's clay mines to the south and the road to the west has been cut off with a berm. The gully that runs west to east to the south of the mining area acts as a barrier to entrance to the property. The National Guard does have an interest in transiting across the property to enter Camp Williams to the west of the mining area. The berm to the west is removed while they are using the road, but when they are done the berm is replaced. No trespassing signs are very abundant in the area to attempt to keep the public out. Since these measures have been taken it appears that there is much less illegal entry into the mining area.

Erosion Control

The west area: Small berms will be constructed along the downhill side of both the upper and lower east-west roads. These small berms will act as a barrier to slow the flow of any runoff to prevent any channeling as the water passes southward over the dryfarm to the south. The only runoff that will reach the east-west roads will be from the roads themselves. Any water from the stockpile pad will remain on the stockpile pad as it slopes inward, and has a 2' berm erected along the west, east, and south sides. All of the areas of mining and waste dumps are inward sloping. The previously disturbed and unreclaimed area in the west has no exit for water at all. The mining area and waste dump area will channel water to the bottom of the old south and east cuts. This water will be detained by berms created at the east end of these cuts. This water will then be absorbed into the ground.

The east area: In this area 60 acres of the area will flow and drain into the depression created by the gravel operation. This water will be unable to escape the property. A 4' berm will be constructed along the south side of the gravel stockpile pad area. The purpose of this berm is to detain the water and allow the silts and sands to precipitate out before the water either seeps into the sandy surface, or flows to the east end of the berm and into the drainage to the south. The berm will also prevent channeling of the south slope of the stockpile area.

VI RULE R647-4-110 RECLAMATION PLAN

110. 1 - Current land use and post-mining land use

The current or premining use of the land (other than mining) is dry farming. The intended use of the land after mining operations are completed is the same, although this end use will probably change. As development moves in from the east Interpace will probably develop this land in parcels as mining moves westward, always leaving a buffer zone between the nearest development and the active mining areas. sell the whole Clinton mine to developers for residential and commercial uses.

110.2 - Reclamation of roads, highwalls, slopes, leach pads, dumps, etc...

A. Roads. Various roads are present in the mine area. The road enters at the southeast corner then runs westward and splits into an upper east-west road a lower east-west road, and a southward road leading to the Allred property and Interstate's clay pit. The upper east-west road and connecting roads will be reclaimed by using a tracked hoe to bring the top edge down and to bring the berm on the lower edge back on to the road. The tracked hoe will rough up the surface of the road prior to reseeding at the same time tracked dozer to rip the roadbed to a depth of at least 24"(as recommended by the Division). The lower east-west road and the southward road will be left in place and not reclaimed. The southward road is used by the landowner to the south and Interstate Brick to access their property. The lower east-west road will also be left in place and not reclaimed. It will be used as access to the property to the west that is used as a dry farm, and access for the National Guard to Camp Williams.

The road which runs north-south along the east edge of the property will be has been reclaimed by scarifying the ground with a grader and seeded. This road-lies within the right-of-way of the first Kern River pipeline. It will not be wise, and probably illegal, to try to rip the ground within the right-of-way out of fear that the pipeline will be ruptured.

- B. Highwalls. It is not anticipated that any highwalls will be left in any disturbed area in either the east or west mining areas.
- Slopes. All slopes will be graded to no more than 18° to 20°. In the west mining C. area the slopes will be retopsoiled and revegetated with a mix of plant species tailored for this area and climate. This will be somewhat steeper than the natural slope angle in this area, but will bring down the extreme highwalls existing in the old pre-law mining cuts. In the east mining area, all areas are covered by sandy loam (naturally in place) or loosened clay/shale/limestone. These materials are excellent mediums for vegetation growth. No topsoils will be deposited prior to seeding, it will be determined, at the time of reclamation, whether the sandy loam will be applied as a topsoil. It is anticipated that about half of the east area will need to have the sandy loam topsoil applied since there will be waste piles to be covered and areas of clay mining. (see map RT-1) Any area needing this topsoil will be covered to a depth of 8", About half of the east area is already comprised of this sandy loam therefore not needing a new cover of this material. All slopes will be ripped on contour by tracked dozer to a depth of 18" at a 3' interval to improve water retention and to loosen the substrate.

There are no impoundments, drainages, ponds, shafts, adits, or drill holes to be reclaimed

- D. Mine material processing area. The area on which the crusher and gravel stockpiles sit will be a relatively flat area of about 12 acres. These areas were located will be ripped by a tracked dozer to a depth of 24" on an interval of 3" to loosen the substrate and to improve water retention. All of this area is comprised of the sandy loam, so none of this area will need new loam applied. This area will be left relatively rough.
- E. Waste piles. About 20,000 cy of overburden / waste dump "A" E4 (RT-1 Middle 26 acres Orange)-will be moved northward by tracked hoe and-dump trucks into dump "B" (RT-1 Middle 26 acres Red Outline) highwall area E3. to fill in any old clay mine cuts, and to move the south base of this waste dump northward. This will allow the south slope of this waste dump highwall to be brought to a slope no steeper than 3:1. The remainder of waste dump "A" E4 will be pushed to the north, west, and east by tracked dozer to lower the height of this waste dump and bring its slopes to no more than 3:1. These two dumps will be covered with the sandy loam topsoil to a depth of 8", and then ripped on contour by tracked dozer to a depth of 18' at a 3' interval.

Waste dump "C" (RT-1 Middle 36 acres Blue Outline) will be filled only to the point that the final grade is reached, and then will be topsoiled with the sandy loam discussed previously. It will be covered with topsoil to a depth of 8", and then ripped by tracked dozer on contour to a depth of 18" at a 3' interval. This area will be left very rough to improve water retention and to minimize erosion due to slope wash.

Waste dump "D" W1 (RT-1 West Mining Area Purple Outline) will be sloped no steeper than 3:1. The height of the pile will begin on the north side at about the original ground elevation before the old east cut was made years ago. The pile will be sloped southward to the bottom of the new pit at an angle no steeper than 18°. This will then have topsoil which has been removed and stockpiled from this area reapplied to a depth of 8". In the event that there is not enough original topsoil, the sandy loam will be used to cover the deficit. The original sandy loam topsoil from this area, located directly to the north on the edge of the highwall, will be pushed southward to cover all of the waste material. After the topsoil is redistributed, the area will be ripped by tracked dozer to a depth of 18" by tracked dozer on contour at an interval of 3' to improve water retention and reduce erosion due to slope wash.

F. Stockpile pad (RT-1 West Mining Area) and topsoil pad (RT-1 West Mining Area) in west area. These two areas comprise approximately 4.25 acres. The topsoil pad, when emptied, will be left at the original contour. This area will be left with its topsoil in place. It will then be ripped on contour to a depth of 18" at a 3' interval by tracked dozer to improve water retention and to prevent any slope wash. The stockpile pad will have its steeper slopes located on the east and south sides pulled back by tracked hoe to achieve the appropriate slope, no greater than 3: I. The area will then be ripped smoothed by tracked dozer. Topsoil or sandy loam will be applied to a depth of 8", and then ripped by tracked dozer to a depth of 24" at a 3' interval to improve water retention and to loosen the substrate.

110.3- Surface Facilities to be left

The crusher and screens are portable and will be removed by the third party owner when the gravel operation is complete. This will include the "crater" in which the fuel tank will be set. The scales and scale house located on the entrance road are owned and operated by a third party. They will be removed from site by their owner. Other than the east-west road, it is not anticipated that any surface facilities will be left on site.

The dike which blocks off the ephemeral drainage through this area will not be removed. The dike has been in place for many years and aids in preventing erosion downstream. It is very possible that the dike could have been constructed in years past as a retention basin to prevent downstream erosion, no one knows when or why the dike was built. This drainage has been blocked off downstream from Interpace's property, so reconstructing the drainage in this location would not restore the entire drainage. Since the future use of this property will probably be for residential development, it would not be desirable to remove the dike to restore the drainage, and then have to reconstruct the dike to constrain any water originating from the property from escaping the property.

110.4 - Treatment. location and disposition of deleterious materials

Other than diesel fuel no deleterious materials will be used or brought onto the site, so there will be none to require disposal. The fuel tank will be owned by a local fuel distributor. When gravel operations are completed the owner of the tank will remove the fuel tank and the rubber liner. Fuel will not be stored on site.

110.5- Revegetation planting program and topsoil distribution

A. Soil material replacement.

The west area: The total area to be reclaimed is about 24 32 acres. The lower east-west road comprising about 1.75 acres will not be reclaimed.

Reclaiming with eight to ten inches of topsoil will require a total of about 8,500 cy of topsoil. There will only be about 3,000 cy of original topsoil available to be stockpiled. All of this topsoil will be used in reclamation, the balance of the topsoil needed will come from the sandy loam generated as a processed waste in the crushing operation. There will be an ample supply of this material available for reclamation. The topsoil will be transported by dump truck and placed on the slopes with tracked crawlers. Seeding will be by broadcast.

The east area: The total area to be reclaimed is about 80 70 acres. Since a large portion all of this area is composed of the sandy loam material or loosened clay/shale/limestone, no topsoil will be redistributed. only 36 acres of this area will require topsoil at the time of reclamation. Reclaiming with eight inches of topsoil will require a total of about 13,000 cy of topsoil. No original topsoil is left to be used in reclamation. The topsoil used will come from the sandy loam generated as a processed waste in the crushing operation. There will be an ample supply of this material available for reclamation. In fact, there are already approximately 50,000 cy of this material already processed and on site. The topsoil will be transported by dump truck and placed on the slopes with tracked

erawlers. Seeding will be by broadcast. Interpace will request the assistance and recommendations from the Division as to the amount of manure at the time of reclamation.

B. Seed bed preparation. The substrate will be graded to the proper slope to insure proper drainage. Topsoil will then be laid down where indicated; transported to the slope by dump truck and then spread to the proper depth by tracked crawler. Then the indicated areas area will then be "ripped" to a depth of about 18", 24" in tightly compacted areas, by tracked crawler to loosen up the substrate and to maximize water retention.

C. Seed mixtures

Description of seed mixture: The following seed mixture will be used, or any other that the Division recommends.

Percentag	e Species Name	Common name
4.6	Agropyron cristatum'ephraim'	'Ephraim' Crested wheatgrass
9.2	Agropyron elongatum	Tall wheatgrass
18.4	Agropyron spicatum	Bluebunch wheatgrass
4.6	Dctylis glomerata'piute'	'Piute' orchard grass
18.4	Elymus cinerus 'magnar'	'Magnar Basin Wildrye
4.6	Medicago sativa	Ladac Alfalfa
4.6	Melilotus officinalis	Yellow sweetclover
4.6	Penstemon palmerii	Palmer pentsemon
13.8	Sanguisorba minor	Small burnet
0.9	Artemisia tridenta vaseyana	Mountain big sagebrush
2.3	Chrysothamnus nauseousus	Rubber Rabbitbrush
4.6	Kochia prostrada	Forage kochia
9.2	Purshia tridentate	Bitterbrush

- D. Seeding Method. The application rate will be 10.85 pounds per acre, and will be planted with no cover crop. The seed will be applied by the broadcasting method. This will be done in the fall of the year just prior to winter freezes.
- E. Fertilization. All areas using the sandy loam as topsoil will require fertilizer prior to seeding. The fertilizer will be in the form of composted manure. The composted manure will be spread across the surface by tractor pulled manure spreader at a rate of 9 tons per acre. Any additional chemical fertilizers that may be found necessary by the Division will be used also. The Division's assistance will be utilized to determine the need and composition of the fertilizer. It is not anticipated to use any type of fertilizer.

110.6 - Reclamation rules

Rule R647-4-111 will be followed in all reclamation practices.

VII RULE R647-4-111 RECLAMATION PRACTICES

111.2 - Reclamation of Natural Channels

The dike which blocks off the ephemeral drainage through this area will not be removed. The dike has been here for many years and aids in preventing erosion downstream. It is very possible that the dike could have been constructed in years past as a retention basin to prevent downstream erosion, not one knows when or why the dike was built. This drainage has been blocked off downstream from Interpace's property, so reconstructing the drainage in this location would not restore the entire drainage. Since the future use of this property will probably be for residential development, it would not be desirable to remove the dike to restore the drainage, and then have to reconstruct the dike to constrain any water originating from the property from escaping the property.

VIII RULE R647-4-112 VARIANCE

No variance is being requested at this time

IX RULE R647-4-113 SURETY

The total estimate for surety is \$248,465 \$448,462. The details for the surety calculation are found in Appendix 1.

X PERMIT FEE [Mined Land Reclamation Act 40-8-7(i)] Enclosed is a check in the amount of \$500.00.

■ Estimate for Reclamation of East Mining Area 70 Acres

1)	Clean-up and removal of structures Old scale base							
		4 hours	@	225.00	/hm	e 000 00		
	Cat D740 articulated truck	8 hours	@ @	225.00		\$ 900.00 1,800.00	\$	2,700.00
2)	Backfilling, grading, and contouring							
·	East wall of old gravel excavation area (area E1)							
	Cat D8 dozer	3 acres	a	1,500.00	/acre	4,500.00		
	Old waste dump (area E2)			225.00				
	Cat D8 dozer	3 acres	@	1,500.00	/acre	4,500.00		
	2007 mining highwall (area E3)							
	Cat 988 loader	40 hours	@	150.00		6,000.00		
	Cat D8 dozer	8 hours	@	225.00	/hour	1,800.00		
	South of gravel stockpile area (area E5)			225.00				
	Cat D8 dozer	2 acres	@	6,750.00	/acre	13,500.00		30,300.00
3)	Soil material redistribution and stabilization None required							
4)	Revegatation (preparation, seeding, and mulching)							
	Seeding (broadcast by hand)	60 acres	@	240.00		14,400.00		
	Manual labor	80 hours	@	15.00	/hour	1,200.00		15,600.00
5)	Safety gates, berms, barriers, signs, etc) all are in place, and will be left in place							
6)	Demolition, removal, and grading of facilities areas not applicable							
7)	Regrading and ripping of waste dump tops and slopes South waste dump (area E4)							
	Cat D8 dozer	120 hours	@	225.00		27,000.00		
	Cat D300 articulated truck	120 hours	@	225.00		27,000.00		
	Cat 320 hydraulic excavator	60 hours	@	150.00	/hour	9,000.00		63,000.00
8)	Regrading and ripping of tightly compacted areas							
	Gravel excavation area	7 acres	@	600.00	/acre	4,200.00		
	Gravel processing and stockpile area	13 acres	@	600.00	/acre	7,800.00		12,000.00
9)	Mulching, fertilizing, and seeding of the affected areas see number 4 above							
10)	Concret site electron and treat							
10)	General site cleanup and trash removal manual labor	70	@	15.00	lance	1.050.00		1.050.00
	manuai iaoor	70 acres	@	15.00	/acre	1,050.00		1,050.00
11)	Removal and disposal of hazardous materials not applicable							
12)	Equipment mobilization							
	Cat D8 dozer	2 moves	(a)	600.00	/move	1,200.00		
	Cat D300 articulated truck	4 moves	<u>@</u>	600.00		2,400.00		
	Cat 320 hydraulic excavator	2 moves	<u>@</u>	600.00		1,200.00		4,800.00
13)	Supervision during reclamation 15% of subtotal					10 425 00		10.425.02
	1570 Of Subtotal					19,425.00	-	19,425.00
		Total estimate	for s	urety			\$	148,875.00

Estimate for Reclamation of West Mining Area 34 Acres

Clean-up and removal of structures

1)

1)	Not applicable								
2)	Backfilling, grading, and contouring								
	Waste dump (area W1)								
	Cat D8 dozer	4	acres	@	\$2,250.00	/acre	\$9,000.00		
	Mining area								
	Cat D8 dozer	10	acres	@	450.00	/acre	4,500.00		
	Old west cut (area W2)								
	Cat D8 dozer	3	acres	@	5,000.00	/acre	15,000.00		
	general								
	Cat D8 dozer	40	hours	@	225.00	/hour	9,000.00	\$	37,500.00
3)	Soil material redistribution and stabilization								
	Cat D8 dozer								
	Cat D740 articulated truck								
	Cat 345 hydraulic excavator	8,500	yards	@	4.00	/yard	34,000.00		34,000.00
4)	Revegatation (preparation, seeding, and mulching)								
	Seeding (broadcast by hand)	27	acres	@	240.00	/acre	6,480.00		
	Manual labor	40	hours	@	15.00	/hour	600.00		7,080.00
5)	Safety gates, berms, barriers, signs, etc)								
0,	all are in place, and will be left in place								
6)	Demolition, removal, and grading of facilities areas not applicable								
7)	Regrading and ripping of waste dump tops and slopes See #2 above								
8)	Regrading and ripping of tightly compacted areas								
-,	Stockpile pad	4	acres	a	450.00	Jacre	1,800.00		
	roads	2		@	450.00		900.00		2,700.00
				•	100.00	74424	700,00		2,700.00
9)	Mulching, fertilizing, and seeding of the affected areas see number 4 above								
10)	General site cleanup and trash removal								
10)	manual labor	24	acres	@	15.00	laama	510.00		£10.00
	manuai iaooi	34	acres	@	13.00	/acre			510.00
11)	Removal and disposal of hazardous materials not applicable								
12)	Equipment mobilization								
,	Cat D8 dozer	2	moves	@	600.00	/move	1,200.00		
	Cat D740 articulated truck (2)	4	moves	@	600.00		2,400.00		
	Cat 345 hydraulic excavator	2	moves	@	600.00		1,200.00		4,800.00
		_		-	000.00	,	_,200,00		1,000,00
13)	Supervision during reclamation								
,	15% of subtotal						12 000 00		12 000 00
	13/0 OI SUO(OIGI						13,000.00	-	13,000.00
		Total E	stimate i	for Su	ırety			\$	99,590.00